

Heart-lung Machine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Report description:

The Global Heart-lung Machine Market, valued at USD 369.8 million in 2024, is set to expand significantly, with an expected compound annual growth rate (CAGR) of 4.6% from 2025 to 2034. As cardiovascular diseases rise and organ transplant surgeries increase, the demand for heart-lung machines has surged. These machines are crucial in providing life support during complex surgical procedures, such as cardiac surgeries and organ transplants, where stable blood circulation and oxygenation are vital. Their role in enhancing patient survival rates and improving outcomes is driving widespread adoption across hospitals, clinics, and other healthcare facilities. Technological innovations in heart-lung machines, including more efficient and user-friendly systems, are also propelling market growth. As healthcare systems globally modernize and expand access to advanced treatments, the need for reliable and high-performing heart-lung machines becomes increasingly important.

The market is divided into two main categories: single-roller pump systems and double-roller pump systems. The single-roller pump segment is expected to dominate, growing at a CAGR of 4.3% and reaching USD 337 million by 2034. These pumps are known for their reliability in providing consistent blood flow during surgeries, which is essential for maintaining stable extracorporeal membrane oxygenation (ECMO). Their simple design and cost-effectiveness make them a popular choice in hospitals and healthcare facilities, especially in emerging markets where budget-conscious solutions are often required.

In terms of application, heart-lung machines are primarily used in hospitals and clinics, ambulatory surgical centers, and other medical institutions. The hospitals and clinics segment is anticipated to grow steadily, reaching USD 241.4 million by 2034. These machines play a key role in critical care, especially during post-transplantation procedures, where they help stabilize patients and reduce the risk of organ rejection. Their effectiveness in supporting immunosuppressive therapies further reinforces their essential presence in hospitals and clinics worldwide.

In the U.S. alone, the heart-lung machine market was valued at USD 139.6 million in 2024 and is projected to grow at a CAGR of 3.9% through 2034. This growth is driven by the high volume of cardiac surgeries, such as coronary artery bypass grafting (CABG)

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and valve replacements, which require reliable heart-lung machine support. Factors like a strong healthcare infrastructure, favorable reimbursement policies, and ongoing investments in research and development continue to position the U.S. as a leader in the global market. With the increasing incidence of cardiovascular diseases, the demand for heart-lung machines in the U.S. is expected to rise, ensuring the continued growth of this critical market.

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